

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District****Ash Slough Drop Structure No. 1**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Ash Slough Drop Structure No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Ash Slough Drop Structure No. 3

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Ash Slough Drop Structure No. 4

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	M
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Bear Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Eastside Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Eastside Bypass Drop Structure No. 1**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Eastside Bypass Drop Structure No. 2**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	M
	Safety	A

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Fresno River Drainage Structure**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	A
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Mariposa Bypass Control Structure**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****Mariposa Bypass Drop Structure**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Owens Creek Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Owens Creek Overflow Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	N
	Safety	A

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lower San Joaquin Levee District (cont.)****San Joaquin River And Chowchilla Canal Bypass Control Structure**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	A
	Flap Gates	N
	Sluice/Slide Gates	M
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	A
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

San Joaquin River Structure And Sand Slough Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	M
	Safety	A

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 1

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Structures	Photo Documentation		N		37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions that would impeded flow.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling visible that would cause any undercutting.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	4
5	0.00	0.00	Structures	Revetments		M	Inspector Comments: Riprap displacement on the downstream and upstream side should be maintained.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachment.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	15

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement present.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible erosion or undermining present.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joint appears to be in good condition.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.033952 ° -120.441733 °	37.033952 ° -120.441733 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking southeast at overview of Drop Structure 1

richard_t_20120731_135.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking northeast at downstream side of structure riprap displacement.

richard_t_20120731_136.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking east at riprap displacement on downstream side of structure.

richard_t_20120731_137.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 2

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N		37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions to impede flow.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of sediment that should not cause erosion around the structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	4
5	0.00	0.00	Structures	Revetments		M	Inspector Comments: Riprap should be properly maintained.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: These items do not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: These items do not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	15

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible erosion or undermining.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appear to be in good condition.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards at this structure.	37.037853 ° -120.440067 °	37.037853 ° -120.440067 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking northeast at overview of drop structure # 2

richard_t_20120731_138.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of drop structure # 2

richard_t_20120731_139.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking northeast at upstream side of drop structure # 2.

richard_t_20120731_140.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking southwest at upstream side of structure.

richard_t_20120627_006.jpg



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking west at revetment on downstream side of structure.

richard_t_20120627_007.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 3

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N		37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions that would impede the flow.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of sediment on the upstream side of structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or caving near the structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing revetment is covered by the sand, but is properly maintained.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments near the structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: These items do not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	14

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
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C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining or erosion.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appears to be in good condition.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.042767 ° -120.436323 °	37.042767 ° -120.436323 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking northeast at overview of downstream side of drop structure # 3	
richard_t_20120731_141.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking east at overview of drop structure # 3	
richard_t_20120731_142.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking southeast at overview of upstream side of drop structure # 3	
richard_t_20120731_143.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 4

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N		37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: Trees should be removed from around structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A		37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A		37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing revetment appears to be properly maintained.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	5
6	0.00	0.00	Structures	Encroachments		M	Inspector Comments: Landowner blocking structure with sand dam. The dam would likely wash out during a high water event.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	6 Y
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This structure was not designed for culverts, but the landowner installed unauthorized culverts through the unauthorized sand dam. See encroachment item for pictures of pipes.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist on this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	14

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining at the structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: No metal items at this structure.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appear to be in good condition.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No safety hazards visible.	37.045045 ° -120.429855 °	37.045045 ° -120.429855 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking northeast at overview of downstream side of drop structure # 4

richard_t_20120731_144.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of drop structure # 4

richard_t_20120731_145.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking southeast at overview of upstream side of drop structure # 4.

richard_t_20120731_146.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking east at sand dam on upstream side of drop structure # 4.	
richard_t_20120731_147.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Bear Creek Diversion Structure

Structure Rating	A
Date of Inspection	7/23/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Structures	Photo Documentation		N	Inspector Comments: Item appears to be acceptably maintained	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: Small amount of vegetation on downstream side of structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling visible.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near the structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing revetment is properly maintained.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: Steveson Irrigation replaced pvc electrical conduit with half inch steel pipe.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	6 Y
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: There are no debris blocking the culverts.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Steven Irrigation District installed an electric gate on upstream side of structure several year ago without permit. They also installed a solar panel.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A		37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	14
15	0.00	0.00	Structures	Concrete Surfaces		M	Inspector Comments: Small cracking on downstream left wing wall.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	15 Y
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A		37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	16

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
17	0.00	0.00	Structures	Concrete Foundations		A		37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: Item does not exist on this structure	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	21
22	0.00	0.00	Structures	Monolith Joints		A		37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible hazards near the structure.	37.254970 ° -120.718450 °	37.254970 ° -120.718450 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking northeast at downstream side of structure.	
richard_t_20120730_084.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at overview of structure.	
richard_t_20120730_087.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking south at east (upstream) side of structure.	
richard_t_20120730_088.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking south at overview of structure.	
richard_t_20120730_089.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking east at overview of structure.	
richard_t_20120730_090.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking at new electrical conduit on downstream side of structure.	
richard_t_20120627_019.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking east at electrical conduit trench on southside of structure.	
richard_t_20120730_085.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments
Looking north at electric control gate on east side of structure.	
richard_t_20120730_086.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at cracking on left wing wall.	
richard_t_20120627_021.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking northwest at cracking on left wing wall	
richard_t_20120627_022.jpg	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at crack on left wing wall during 2012 inspection.	
richard_t_20120730_091.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Control Structure

Structure Rating	A
Date of Inspection	7/23/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	4
5	0.00	0.00	Structures	Revetments		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	5
6	0.00	0.00	Structures	Encroachments		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Item appears to be adequately maintained and able to perform as intended.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	12
13	0.00	0.00	Structures	Electric Gate Operators		A	Inspector Comments: Item appears to be adequately maintained and able to perform as intended	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	13 Y
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Item appears to be adequately maintained and able to perform as intended.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: Item appears to be acceptably maintained.	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	16
17	0.00	0.00	Structures	Concrete Foundations		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	17

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	0.00	0.00	Structures	Security Fencing		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	18
19	0.00	0.00	Structures	Closure Structures		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	20
21	0.00	0.00	Structures	Other Metallic Items		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	21
22	0.00	0.00	Structures	Monolith Joints		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	22
23	0.00	0.00	Structures	Safety		A		37.204867 ° -120.696985 °	37.204867 ° -120.696985 °	23

*** Location**

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**** Rating**

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N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of downstream side of structure.

richard_t_20120730_109.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking north at downstream side of structure.

richard_t_20120730_110.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of structure.

richard_t_20120730_111.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at control gates on upstream side of structure.	
richard_t_20120730_112.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at upstream side of structure.	
richard_t_20120730_114.JPG	



Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Electric Gate Operators
Looking north at several electric motors on upstream side of structure	
richard_t_20120730_113.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 1

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N	Inspector Comments: Item appears to be acceptably maintained	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		M	Inspector Comments: Some minor caving on right wing wall.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	4 Y
5	0.00	0.00	Structures	Revetments		N	Inspector Comments: Item appears to be acceptably maintained	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	5
6	0.00	0.00	Structures	Encroachments		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	16
17	0.00	0.00	Structures	Concrete Foundations		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	17

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	20
21	0.00	0.00	Structures	Other Metallic Items		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: Some minor movement at wing wall joint.	36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	22
23	0.00	0.00	Structures	Safety		A		36.976928 ° -120.382103 °	36.976928 ° -120.382103 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of drop structure # 1

richard_t_20120731_148.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking northwest at overview of downstream side of drop structure # 1

richard_t_20120731_149.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of upstream side of drop structure # 1

richard_t_20120731_150.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving
Looking at erosion/caving on right wing wall.	
richard_t_20120731_151.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 2

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N		36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions that would impeded flow present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present .	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or caving present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment appears to be properly maintained.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	15

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement or settlement present.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible erosion or undermining near the structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not exist at this structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	21
22	0.00	0.00	Structures	Monolith Joints		M	Inspector Comments: Minor joint separation occurring on left side of structure.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	36.975357 ° -120.374833 °	36.975357 ° -120.374833 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at overview of upstream side of drop structure # 2	
richard_t_20120731_152.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at overview of drop structure # 2	
richard_t_20120731_153.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking northeast at overview of downstream side of drop structure # 2	
richard_t_20120731_154.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints

Looking at joint separation on left side of structure.

richard_t_20120731_155.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Fresno River Drainage Structure

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N	Inspector Comments: Item appears to be acceptably maintained	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	4
5	0.00	0.00	Structures	Revetments		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	5
6	0.00	0.00	Structures	Encroachments		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	10
11	0.00	0.00	Structures	Flap Gates		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	11 Y
12	0.00	0.00	Structures	Sluice/Slide Gates		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Missing wheels on screw gate.	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	14 Y
15	0.00	0.00	Structures	Concrete Surfaces		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	16
17	0.00	0.00	Structures	Concrete Foundations		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	18

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	20
21	0.00	0.00	Structures	Other Metallic Items		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	21
22	0.00	0.00	Structures	Monolith Joints		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	22
23	0.00	0.00	Structures	Safety		A		36.975418 ° -120.359578 °	36.975418 ° -120.359578 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking west at screw gates on outlet side of structure.	
richard_t_20120731_156.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking west at overview of inlet.	
richard_t_20120731_157.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Flap Gates
Looking west at flap gates.	
richard_t_20120731_159.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

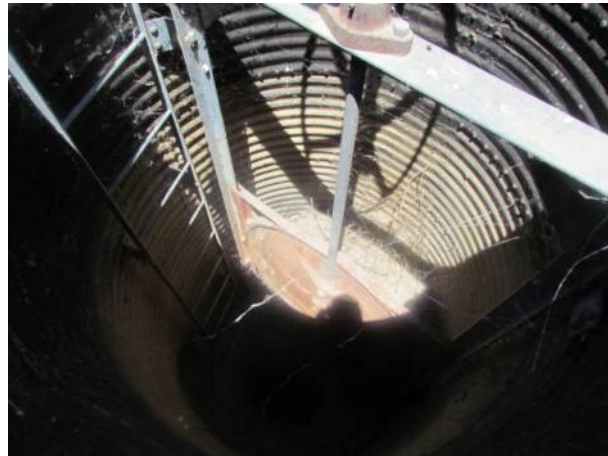
Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators
Looking south at screw gates	
richard_t_20120731_158.JPG	



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators
Looking at screw gate inside can.	
richard_t_20120731_160.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Mariposa Bypass Control Structure

Structure Rating	A
Date of Inspection	7/23/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N	Inspector Comments: Item appears to be adequately maintained and able to perform as intended	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No visible vegetation or obstructions impeding the flow.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: All revetments appears to be properly maintained.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No debris blocking culverts.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: No visible damage, sediment or obstructions inspected.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	12
13	0.00	0.00	Structures	Electric Gate Operators		A	Inspector Comments: Electrical gates are in proper working conditions.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Manual gate appear to be in proper working order.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage to concrete surfaces.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	15

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining near the structure.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appear to be in good condition.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No safety hazards visible.	37.201538 ° -120.694813 °	37.201538 ° -120.694813 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of downstream side of structure.

richard_t_20120730_121.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking north at overview of structure.

richard_t_20120730_122.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking northwest at downstream side of structure.

richard_t_20120730_123.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking south at overview of upstream side of structure.	
richard_t_20120730_124.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Mariposa Bypass Drop Structure

Structure Rating	A
Date of Inspection	7/23/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N	Inspector Comments: Structure appears to be maintained and able to perform as intended	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions near the structure that would impeded the flow.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No erosion near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment not viewable due to high water flows.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage to concrete surface.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	16

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining near the structure.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: Item does not exist on this structure	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: Some movement at left wing wall joints.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.201227 ° -120.755223 °	37.201227 ° -120.755223 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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PO : Partially Obstructing
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C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking west at upstream side of structure.	
richard_t_20120730_115.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking west at left wing wall on downstream side of structure.	
richard_t_20120730_116.JPG	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking south at left wing wall on downstream side of structure.	
richard_t_20120730_117.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at right wing wall on downstream side of structure.	
richard_t_20120730_118.JPG	



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints
Looking north at joint on left wing wall on downstream of structure.	
richard_t_20120730_119.JPG	



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints
Looking at joint on left wing wall.	
richard_t_20120730_120.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Owens Creek Control Structure

Structure Rating	A
Date of Inspection	7/23/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N		37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No visible vegetation or obstructions to impeded flow.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling visible.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		M	Inspector Comments: There is some cracking and animal borrowing occurring on levee embankment on the upstream side near the right wing wall and on the downstream side near the left wing wall.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	4 Y
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment appears to be properly maintained.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments visible.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No visible debris blocking the culverts.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	14
15	0.00	0.00	Structures	Concrete Surfaces		M	Inspector Comments: Small cracking on upstream left and right wing walls	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	15 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure							07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: Concrete tilting/settlement on upstream and downstream left wing walls has been repaired by LMA	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	16 Y
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining along the structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	18
19	0.00	0.00	Structures	Closure Structures		A	Inspector Comments: No visible damage or problems with structure.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: Item does not exist on this structure	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: Left & right wing walls joint has been repaired.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	22 Y
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible hazards.	37.219788 ° -120.698058 °	37.219788 ° -120.698058 °	23

*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

A : Acceptable
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PO : Partially Obstructing
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N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at upstream side of structure.

richard_t_20120730_094.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at downstream side of structure

richard_t_20120730_095.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of structure.

richard_t_20120730_096.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving
Looking at bank caving near right wing wall on downstream side of structure.	
richard_t_20120730_107.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Erosion / Bank Caving
Looking at possible animal borrowing on right side of structure on upstream side.	
richard_t_20120730_108.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at brace on upstream side of structure.	
richard_t_20120730_100.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking at brace on right wing wall on downstream side of structure.	
richard_t_20120730_101.JPG	



Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Tilting / Settlement
Looking at repaired right wing wall on downstream side of structure. Summer 2012	
richard_t_20120730_097.JPG	



Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Tilting / Settlement
Looking west at brace on right wing wall on downstream side of structure. Summer 2012	
richard_t_20120730_098.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints
Looking at repaired left wing wall on upstream side of structure. Summer 2012	
richard_t_20120730_099.JPG	



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Monolith Joints
Looking at repaired right wing wall on upstream side of structure	
richard_t_20120730_102.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Owens Creek Overflow Structure

Structure Rating	A
Date of Inspection	7/23/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Structures	Photo Documentation		N	Inspector Comments: The structure appears to be maintained and able to perform as intended	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No visible vegetation or obstructions to impeded flow.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling near the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No erosion near the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment on outlet side not viewable due to high water.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments near the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No debris visible to block culverts.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Slide gates not viewable due to high water.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Manual gates appears to be in good working condition.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage to concrete surface.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	16

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/23/2012 07/23/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining along the structure.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: Item does not exist on this structure	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible hazards.	37.205787 ° -120.696838 °	37.205787 ° -120.696838 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/23/2012 07/23/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at upstream side of structure.

richard_t_20120730_103.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking east at manual (screw) gates and platform on upstream side of structure.

richard_t_20120730_106.JPG



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets

Looking southwest at outlet of structure (Summer 2012)

richard_t_20120730_105.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River And Chowchilla Canal Bypass Control Structure

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: The structure appears to maintained and able preformed as designed.To eliminate the vibration the gates must remain all the way open or closed.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction visible to impede flow.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation build-up or shoaling visible.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: All revetment appears to be properly maintained.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	5 Y
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No visible encroachments present.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: No visible debris blocking culverts.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	9
10	0.00	0.00	Structures	Trash Racks		A	Inspector Comments: Trash racks appears to be properly maintained.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	10 Y
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not exist on this structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	11

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
12	0.00	0.00	Structures	Sluice/Slide Gates		M	Inspector Comments: Levee District have observed what appears to be "harmonic vibration" from two of the four flood gates of the Chowchilla Canal Bypass control structure. Specifically, gates 1 and 4. Inspection revealed a sheared bolt connection between two of the I-beams of the gate, and some separation between the support I-beams for the gate. Based on the report done by Jesse J. Dillon of DOE he recommend operating criteria for the gates should be modified immediately to exclude, as much as possible, conditions that excite the lower portion of the gates and induce vibration. Repair of gates is scheduled for mid-September. See memo from CVFPB for timeline of construction in database.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators		A	Inspector Comments: Gates appears to be in proper working condition.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	13 Y
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Manual gates appears to be in proper working condition.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: No visible damage to concrete surface.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along this structure.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining present.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	17
18	0.00	0.00	Structures	Security Fencing		A	Inspector Comments: Fencing appears to be properly maintained.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	19
20	0.00	0.00	Structures	Trash Rakes		A	Inspector Comments: No mechanical trash rake exists on this structure. District maintains a manual trash rake to remove trash.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: All joints appears to be in good condition.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No safety hazards present.	36.773983 ° -120.284067 °	36.773983 ° -120.284067 °	23

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking west at downstream side of San Joaquin Control Structure.	
richard_t_20120731_161.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking west overview of gates on San Joaquin Control Structure.	
richard_t_20120731_162.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation
Looking northwest at overview of gates and motors on San Joaquin Control Structure.	
richard_t_20120731_163.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

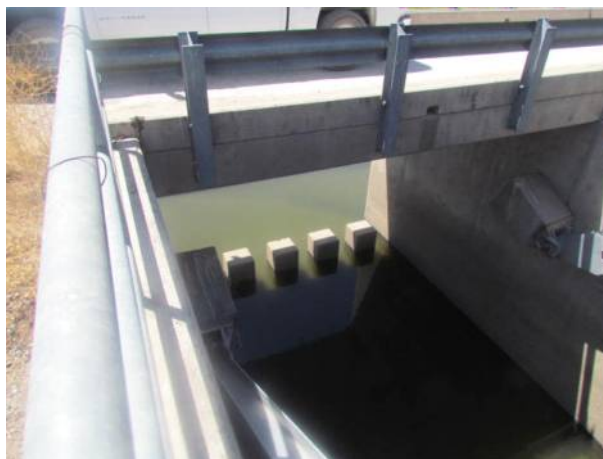
Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Looking north at typical view of gate bays on San Joaquin Control Structure.

richard_t_20120731_165.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Revetments

Looking southeast at revetment on downstream side of Chowchilla Control Structure.

richard_t_20120731_169.JPG



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Trash Racks

Looking north at trash racks on San Joaquin Control Structure.

richard_t_20120731_167.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Looking south at typical view of gates on Chowchilla Control Structure.

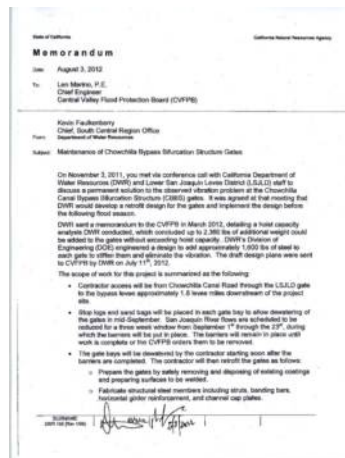
richard_t_20120731_168.JPG



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Memo from CVFPB for authorization to repair gates on Chowchilla Bypass structure pg. 1

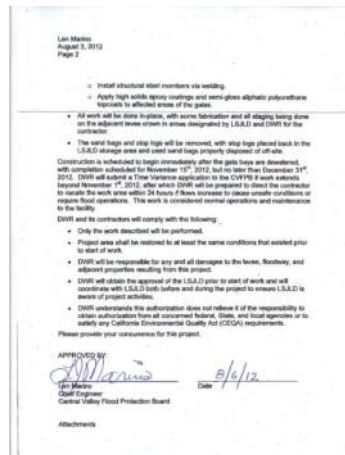
richard_t_20120809_175.jpg



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

Memo from CVFPB for authorization to repair gates on Chowchilla Bypass structure pg. 2

richard_t_20120809_176.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Electric Gate Operators
Looking east at gate motors on Chowchilla Control Structure.	
richard_t_20120731_166.JPG	

*** Location**

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Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River Structure And Sand Slough Structure

Structure Rating	A
Date of Inspection	7/24/2012
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure					Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure						07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Structures	Photo Documentation		N	Inspector Comments: San Joaquin structure has some minor structure damage. The Sand Slough structure appears to be maintained and able to function as designed.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction appears to impede flow.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No visible sedimentation or shoaling present.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No visible erosion near the structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Revetment appears to be properly maintained.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No encroachments near the structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: There is minor vegetation in inlet culvert.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: No visible damage to culverts.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Gates appears to be in good working conditions.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: All manual gates appears to be in proper working condition. District caps off manual operation stem to secure gates.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	14

*** Location**

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WS : Water Side
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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure							07/24/2012 07/24/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	0.00	0.00	Structures	Concrete Surfaces		M	Inspector Comments: Cracking on outlet side on left and right corner. Minor cracking on Sand Slough structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	15 Y
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: No visible movement along this structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No visible undermining present or near this structure.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: Item does not exist on this structure	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: No visible corrosion	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	21
22	0.00	0.00	Structures	Monolith Joints		M	Inspector Comments: Medium size cracking on outlet side on right corner should be repaired.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: No visible safety hazards.	37.112337 ° -120.589543 °	37.112337 ° -120.589543 °	23

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking south at overview of San Joaquin Structure.

richard_t_20120731_125.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking east at overview of San Joaquin structure.

richard_t_20120731_126.JPG



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking north at right wing wall on San Joaquin structure.

richard_t_20120731_129.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable

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CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking north at left wing wall on San Joaquin structure.	
richard_t_20120731_130.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking west at inlet of Sand Slough structure.	
richard_t_20120731_133.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
Looking north at inlet of Sand Slough structure.	
richard_t_20120731_134.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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PO : Partially Obstructing
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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking south at gates on downstream side of Sand Slough structure.,	
richard_t_20120731_131.JPG	



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking north at stems cap-off on gates for security.	
richard_t_20120731_132.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces
Looking east at minor chipping on left wall of San Joaquin structure.	
richard_t_20120731_127.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/24/2012 07/24/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

Looking southeast at minor chipping on upstream side of San Joaquin structure.

richard_t_20120731_128.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
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CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected